

What is claimed is:

1. A corrector optic for being optically disposed between a prism and an objective lens of a camera, comprising at least two lenses for compensating spherical and coma aberrations generated by the prism.
2. The corrector optic of Claim 1, wherein the at least two lenses comprise:
  - a positive lens for being disposed between the objective lens and the prism and having a convex surface for being disposed toward the objective lens; and
  - a negative lens for being disposed between the positive lens and the prism and having a concave surface for being disposed toward the prism.
3. The corrector optic of claim 2 wherein the positive lens is formed of a first material having having a first index of refraction and a first Abbe number, and the negative lens is formed of a second material having a second index of refraction and a second Abbe number, said second index of refraction being higher than said first index of refraction, and said second Abbe number being lower than said first Abbe number.
4. A camera for coupling with an objective lens, comprising:
  - a prism for being disposed between the objective lens and an image plane, said prism generating aberrations; and
  - a corrector optic for being disposed between the objective lens and the prism, said corrector optic comprising at least two lenses for compensating spherical and coma aberrations generated by the prism.
5. The camera of Claim 4, wherein the at least two lenses comprise:
  - a positive lens for being disposed between the objective lens and the prism and having a convex surface for being disposed toward the objective lens; and

a negative lens for being disposed between the positive lens and the prism and having a concave surface for being disposed toward the prism.

6. The camera of claim 5 further comprising an infrared-rejecting filter disposed between the objective lens and the prism.

7. The camera of claim 6 wherein the infrared-rejecting filter is disposed between the corrector optic and the prism.

8. The camera of claim 5 wherein the prism is a color-separation prism.

9. The camera of claim 8 further comprising a quarter-wave plate disposed between the objective lens and the prism.

10. The camera of claim 9 wherein the quarter-wave plate is disposed between the corrector optic and the prism.

11. The camera of claim 10 further comprising an infrared-rejecting filter disposed between the objective lens and the prism.

12. The camera of claim 11 wherein the infrared-rejecting filter is disposed between the corrector optic and the prism.

13. The camera of claim 5 wherein the positive lens is formed of a first material having a first index of refraction and a first Abbe number, and the negative lens is formed of a second material having a second index of refraction and a second Abbe number, said second index of refraction being higher than said first index of refraction, and said second Abbe number being lower than said first Abbe number.

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14. A camera, comprising:  
an objective lens;

100-100-100-100-100-100-100

a prism disposed between the objective lens and an image plane, said prism generating aberrations; and

a corrector optic disposed between the objective lens and the prism, said corrector optic comprising at least two lenses for compensating spherical and coma aberrations generated by the prism.

15. The camera of Claim 14, wherein the at least two lenses comprise:

a positive lens disposed between the objective lens and the prism and having a convex surface disposed toward the objective lens; and

a negative lens disposed between the positive lens and the prism and having a concave surface disposed toward the prism.

16. The camera of claim 15 wherein the prism is a color-separation prism.

17. The camera of claim 15 wherein the prism is a viewfinder beam-splitter prism.

18. The camera of claim 15 wherein the positive lens is formed of a first material having a first index of refraction and a first Abbe number, and the negative lens is formed of a second material having a second index of refraction and a second Abbe number, said second index of refraction being higher than said first index of refraction, and said second Abbe number being lower than said first Abbe number.

19. A corrector-optic module for coupling between an objective lens and a prism module, comprising:

a corrector optic for compensating spherical and coma aberrations generated by the prism module;

a front mount for coupling with a mount of the objective lens; and

a rear mount for coupling with a mount of the prism module.

20. The corrector-optic module of claim 19 wherein the corrector optic comprises a positive lens having a convex surface disposed toward said front mount and a negative lens having a concave surface disposed toward said rear mount.

21. The corrector-optic module of claim 20 wherein the positive lens is formed of a first material having a first index of refraction and a first Abbe number, and the negative lens is formed of a second material having a second index of refraction and a second Abbe number, said second index of refraction being higher than said first index of refraction, and said second Abbe number being lower than said first Abbe number.

THEORY